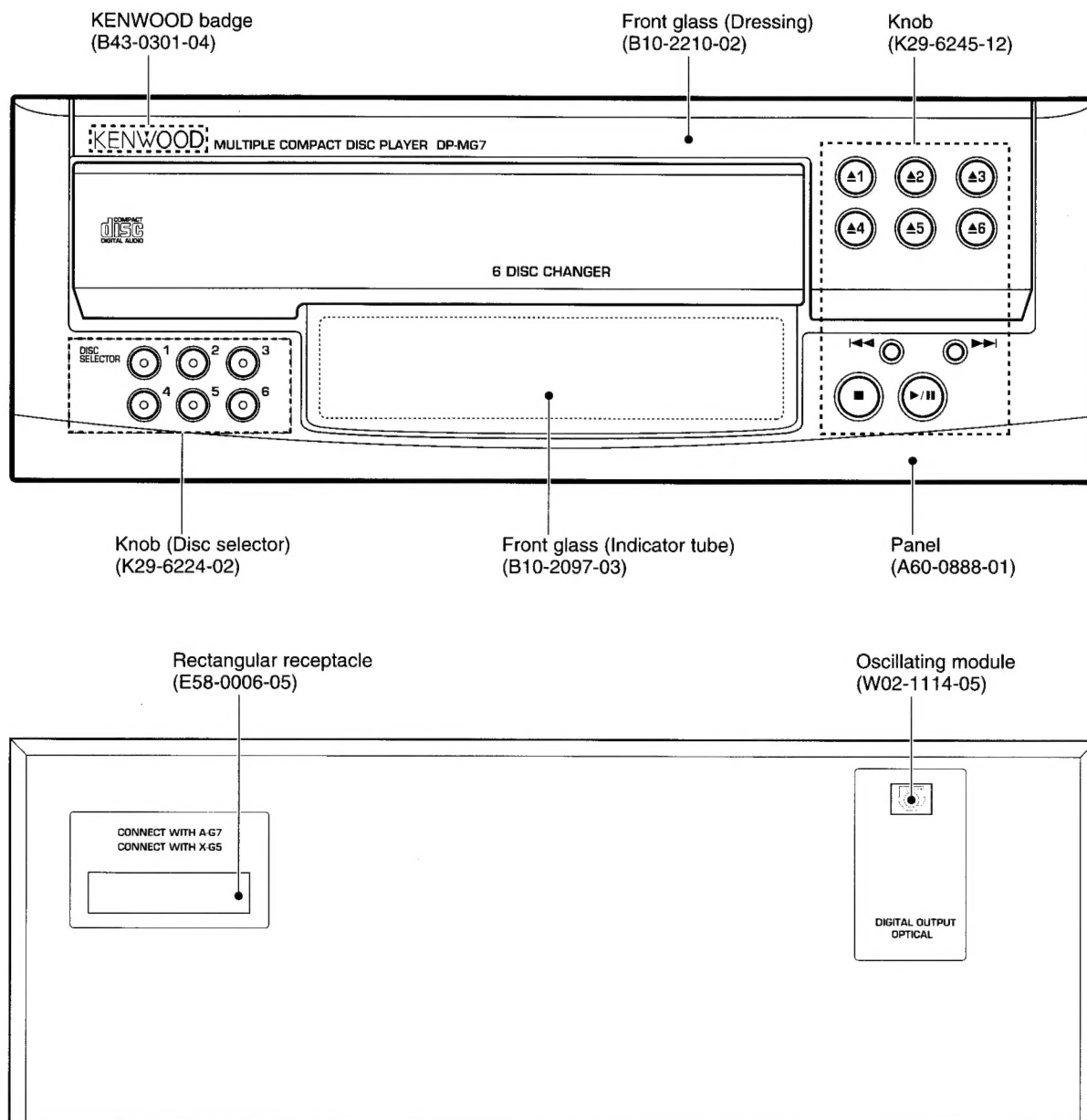


DP-MG7

SERVICE MANUAL

(UD-755/825)



* Refer to parts list on page 22.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.**

PRECAUTIONS FOR REPAIR

DP-MG7 does not have power supply transformer. Use A-G7 or PS-94UA power supply to supply power.

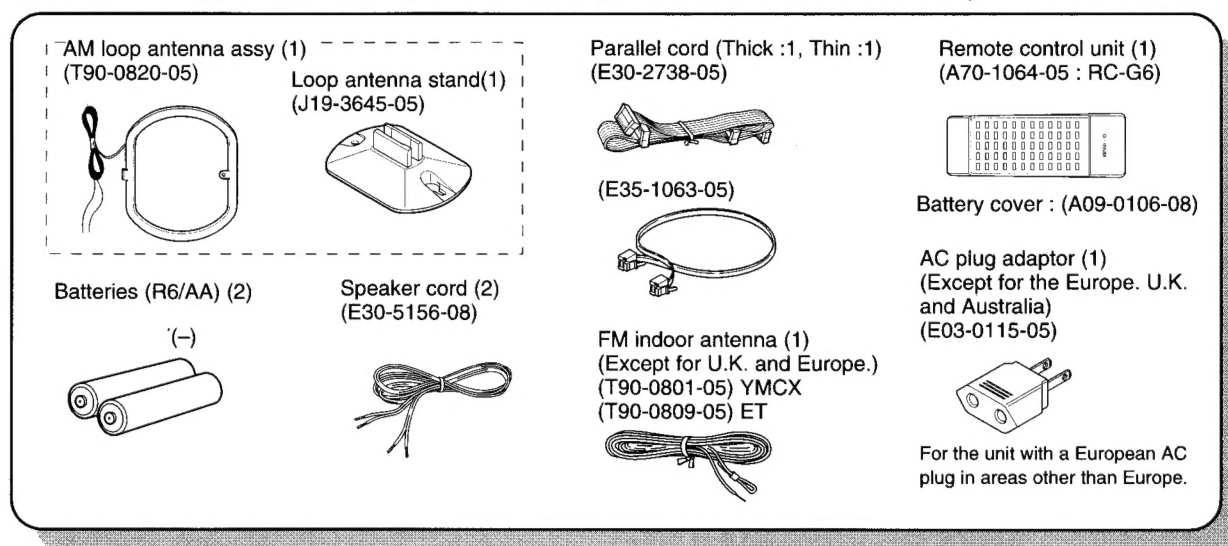
DP-MG7

CONTENTS / ACCESSORIES

Contents

CONTENTS / ACCESSORIES / CAUTION	2	PC BOARD	13
CONTROLS	3	SCHEMATIC DIAGRAM	15
DISASSEMBLY FOR REPAIR	4	EXPLODED VIEW	19
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CIRCUIT DESCRIPTION	8	SPECIFICATIONS	Back cover
ADJUSTMENT	12		

Accessories (Speaker cords are packed with the Speakers. All other accessories are packed with the Tuner unit.)



System configuration

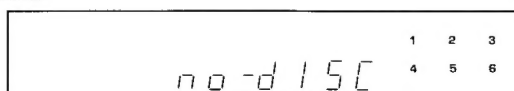
System	Amplifier	Tuner	CD Player	Deck	Speaker	System Carton Box (Parts Mo.)
UD-705	A-G7	C-G7	DP-G7	X-G5	LS-G6	H60-0438-04 (M) / H60-0439-04 (C)
UD-755	A-G7	C-G7	DP-MG7	X-G5	LS-G6	H60-0436-04 (MXY) / H60-0437-04 (C)
UD-825	A-G7	C-G72	DP-MG7	X-G5	LS-G6	H60-0440-04 (M) / H60-0441-04 (C)

Caution

Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
● Press the ►/II key to check that no disc is present on the tray.
2. Wait a few seconds and verify that the display shown appears.



3. Turn the power OFF.

Beware of condensation

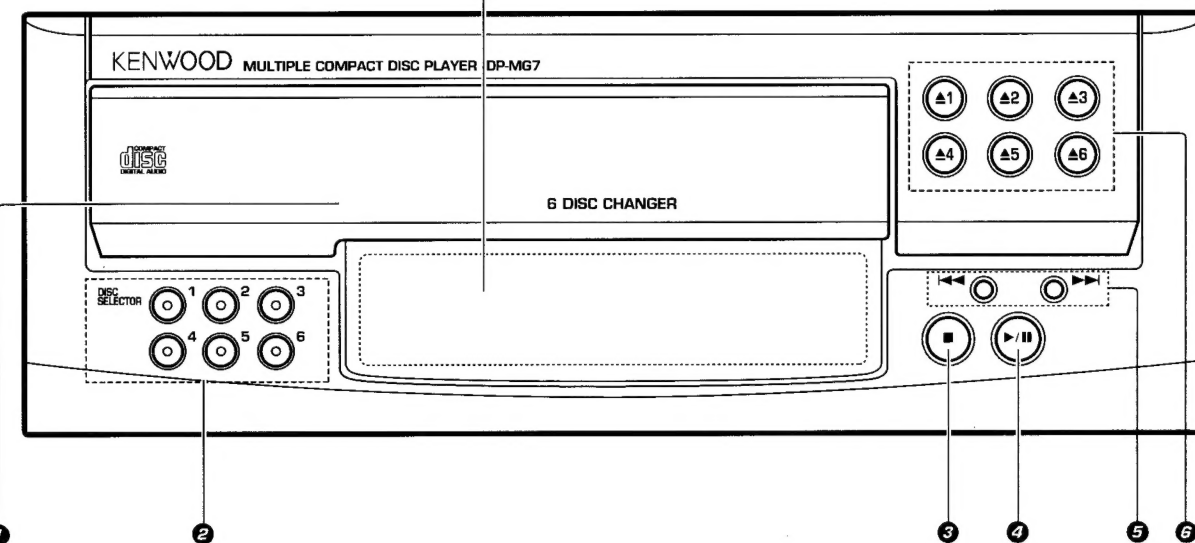
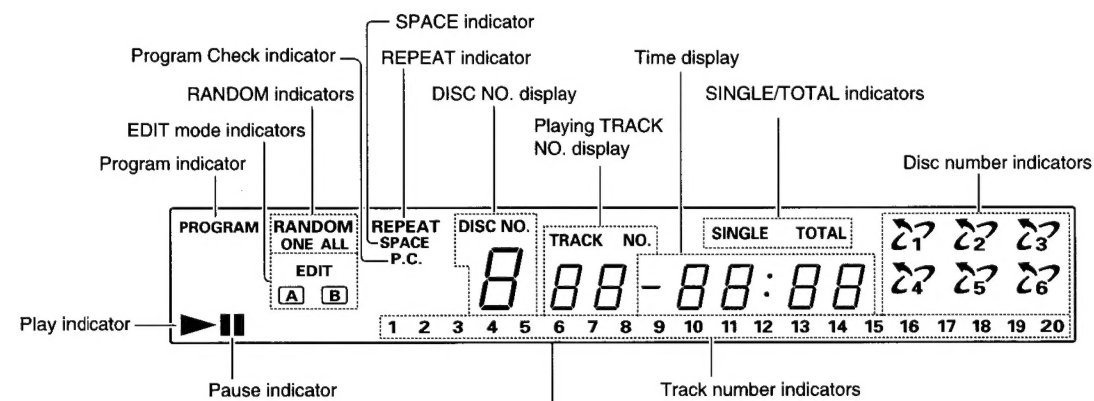
When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

DP-MG7

CONTROLS



- ① Disc tray
- ② Disc selector keys(1-6)
- ③ Stop key
- ④ Play/pause key

- ⑤ Skip keys
Press to skip to the beginning do another track.
- ⑥ Open/Close

DP-MG7

DISASSEMBLY FOR REPAIR

1. HOW TO REMOVE CD MECHANISM ASSY

1. Remove 4 screws(①) and rear panel.
2. Remove 4 screws(②) and flat cable(③), and remove pcb(X32).
3. Remove and insert 16p flat cable from cn1 to short-washer on top of mechanism.
4. Remove front glass(④).
5. Remove 5 screws(⑤) and mechanism assy.

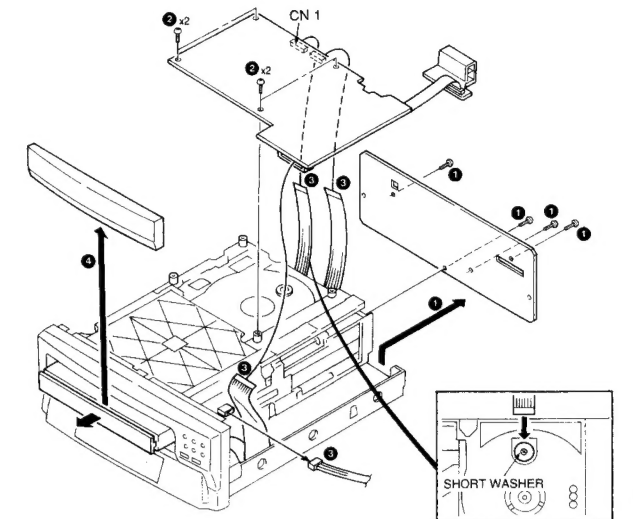


Fig. 1

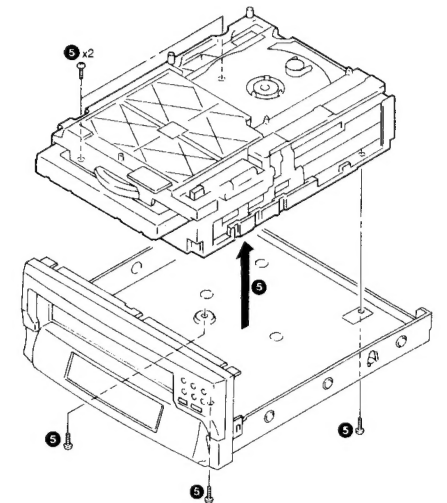


Fig. 2

2. HOW TO CHECK IN DISASSEMBLY

1. Remove 35p flat cable from cn4.
2. Remove 5 screws and pcb(X32)
3. Arrange each parts as figure 3.
4. Remove front panel assy
5. Connect 35p flat cable to cn4 on X32.
6. Check connection carefully before power on.

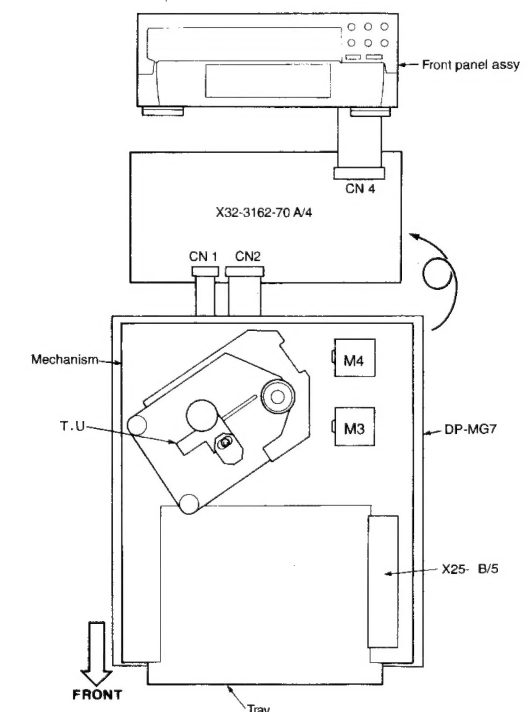


Fig. 3

DP-MG7

DISASSEMBLY FOR REPAIR

3. HOW TO REPLACE PICKUP

1. Remove guide-top and bracket-clamp with connecting 16p flat cable to short-wire.
2. Remove slide.
3. Remove 6p wire-harness from cn2, X25.
4. Short short-lands(②) on pickups pcb and remove 16p flat cable(②).
5. Remove shaft(⑩) and replace pickup

Note : Don't pull out flat cable connected to short-washer after mechanism unit is fixed.

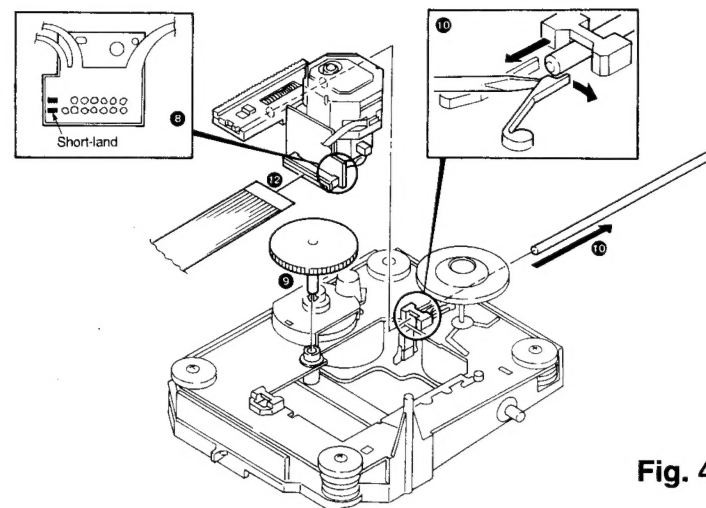


Fig. 4

4. HOW TO REMOVE STOCKER

1. Pull out and remove tray.
2. Set gear-top to(③) position and turn worm gear front wards. stocker is top position(③).
3. Remove sub-chassis(RIGHT) with motor, M3

Note : Spread hook of slide-lift and remove boss(⑦) of stocker.
Next remove pull out back boss and stocker.

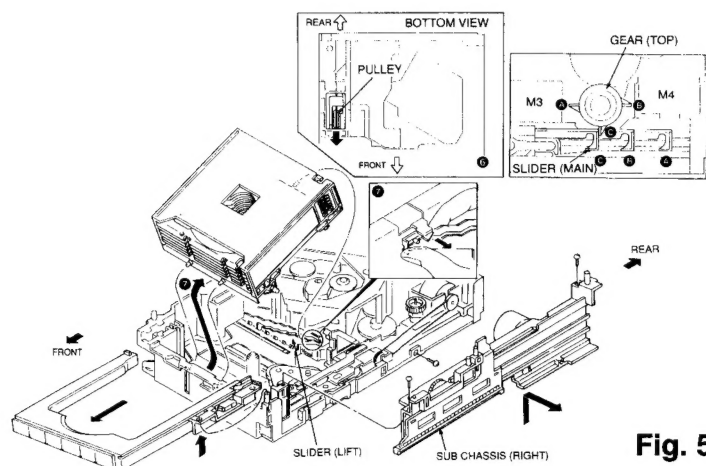


Fig. 5

5. HOW TO OPEN TRAY IN MECHANISM JAM

1. Insert screw driver at rear hole of mechanism and push slider-main.
2. Release unlock of lever-tray A. Tray comes out if pushed slide-main more.

Note : You can open tray if insert driver to small hole of rear panel.

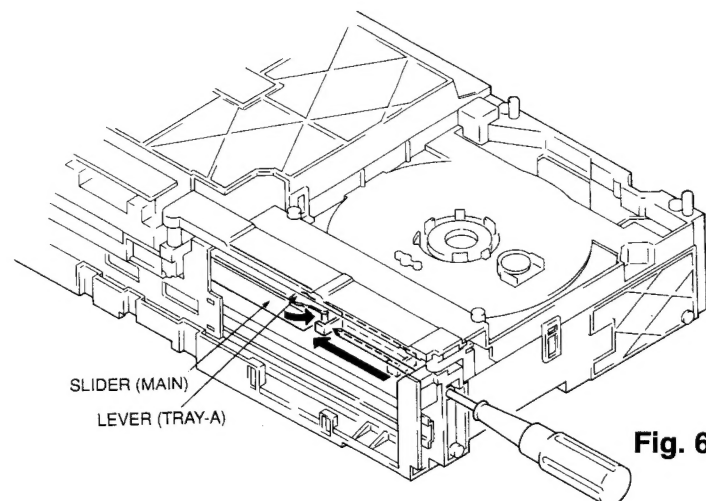


Fig. 6

DP-MG7

DISASSEMBLY FOR REPAIR

6. HOW TO MEET GEAR POSITION

6-1 GEAR-TOP/BOTTOM

stocker boss : down

md : up

lever-tray A : unlocked

1. Meet groove of lever-guide B with projection of gear-bottom(㉔).
2. Load gear-top on it.

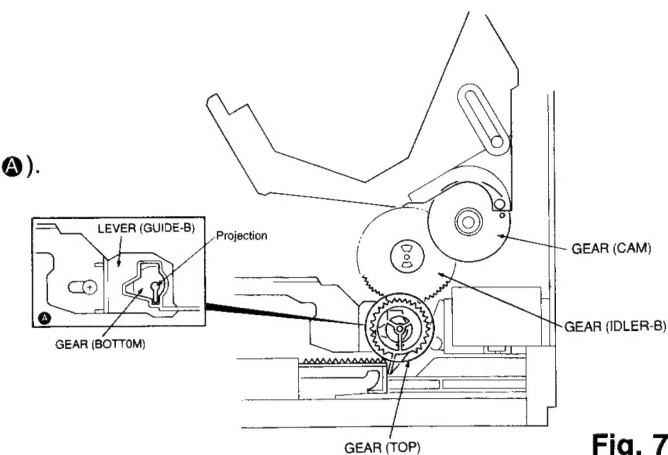


Fig. 7

6-2 GEAR-CAM

stocker : down

md : down

lever-tray A : locked

1. Meet hole of gear-cam with hole of chassis of main. Load gear-loads on it .
2. Load slider.

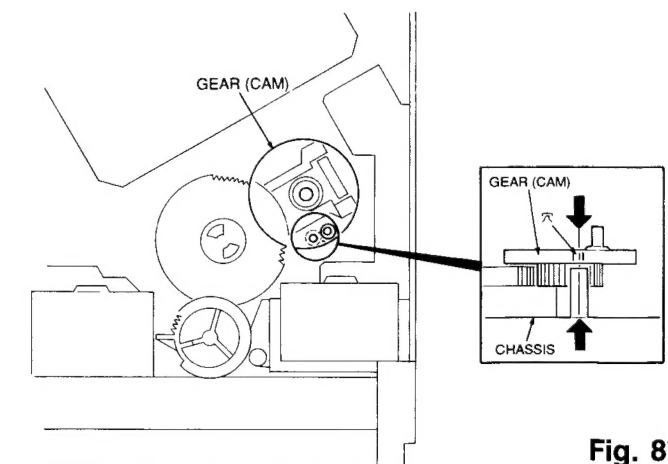
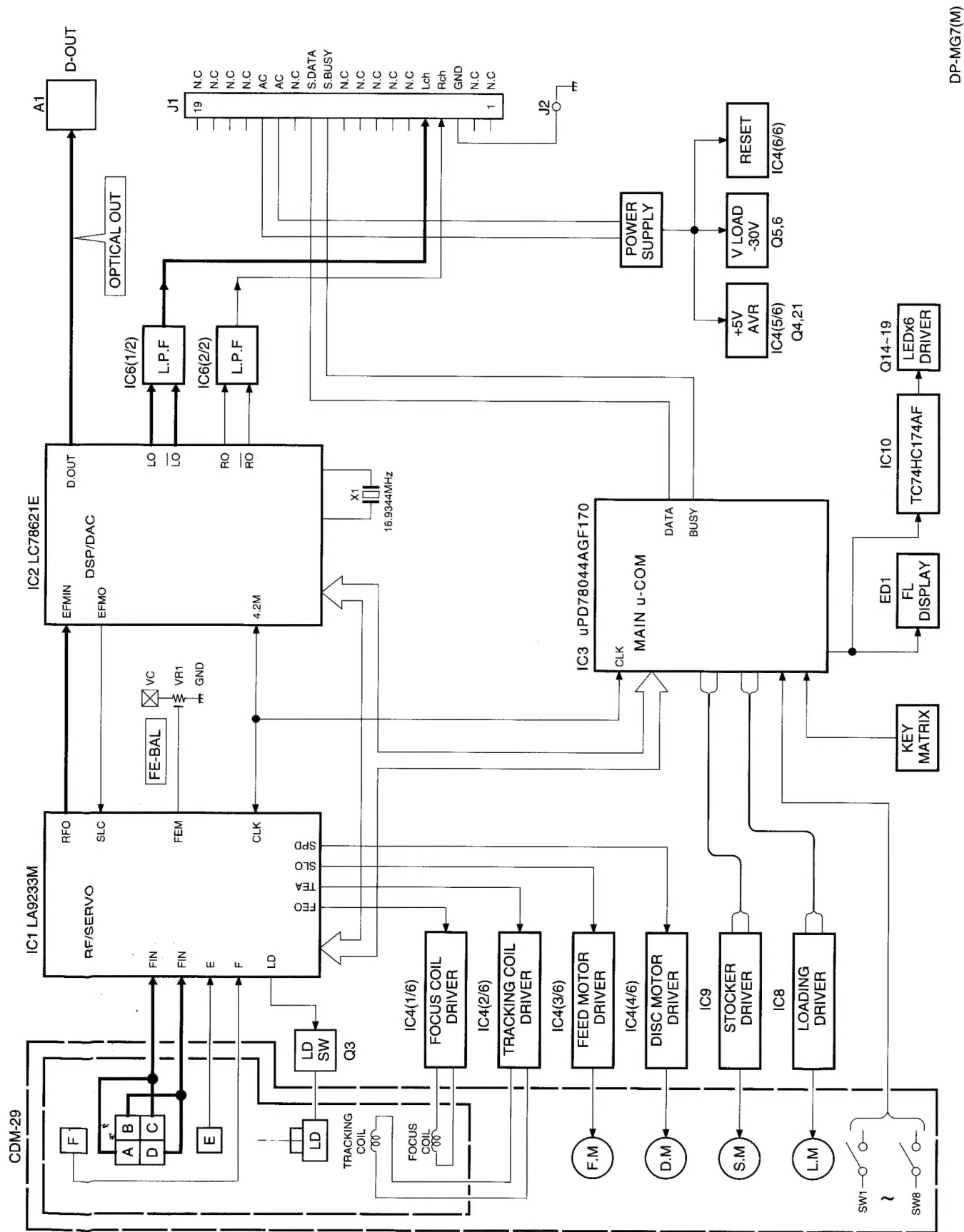


Fig. 8

DP-MG7

BLOCK DIAGRAM



DP-MG7

CIRCUIT DESCRIPTION

TEST MODE

1-1 MODE"00" : ADJUST/AUDIO CHECK

INPUT : Turn on with pressing DISC SELECTOR 1. Open DISC 1

INPUT KEY	DISPLAY	OPERATION	REMARKS
PLAY	05	Close tray and playback DSC 1 if in open mode. Playback DISC 1 if in stop mode.Change circuit if "03" mode.All servo are on.	By pressing key, display change to normal mode.
STOP	00	Change mode to STOP.	Same
UP	-	Display syncral mode all light and unlight	Same
DOWN	03	Close tray and playback DSC1 if in open mode. Playback DISC 1 if in stop mode. Change circuit if "05" mode. Tracking servo is on. Focus and feed servo are off.	Same
DISC OPEN/ CLOSE1-6	00	Open or close tray 1 to 6. Change to STOP mode and open tray if DISC 1 open mode. Close tray if close mode only.	Same
DISC 4	05	FB operation (in playback mode only)	Same
DISC 5	05	FF operation (in playback mode only)	Same
DISC 6	00	Repair mode (refer to 1-2)	Same
DISC 3	-	Release TEST mode "00". Change to STOP mode. Not include Repair mode(1-2).	Same

1-2 REPAIR MODE FOR MECHANISM OPERATION/JAM

INPUT : 1. Turn on with pressing DISC SELECTOR 6
2. Chane to REPAIR MODE if press DISC SELECTOR 6 in TEST "00" mode.

INPUT KEY	DISPLAY	OPERATION	REMARKS
DISC 1	00	M3 motor works as OPEN in pressing the key	
DISC 2	00	M3 motor works as CLOSE in pressing the key	
DISC 4	00	M4 motor works as UP in pressing the key	
DISC 5	00	M4 motor works as DOWN in pressing the key	

Note : DISC1,2,4, and 5 are available for above test mode.

CIRCUIT DESCRIPTION

1-3 MECHANISM ERROR MODE

INPUT : Turn on with pressing PLAY key. Mechanism operation is initialized and operation is stop if not work normally. Display has error numbers.

Change to normal mode if initialization is no problems.

DISPLAY	Err mode	Error	Remarks
Err 01	OPEN	Open operation doesn' t work/Open switch doesn't work.	
Err 02	CLOSE	Close operation doesn't work/Close switch doesn't work.	
Err 03	MD UP	MD up operation doesn't work/Slider doesn't stop at MD up position	
Err 04	MD DOWN	MD down operation doesn't work/Slider doesn't stop at MD down position	
Err 05	LIFT UP	Lift up operation doesn't work/Disc count switch doesn't work	
Err 06	LIFT DOWN	Lift down operation doesn't work/Disc count switch doesn't work	
Err 07	LOAD	Load operation doesn't work/There is no MD at down position/Single tray in switch doesn't works	
Err 08	STORE	Store operation doesn't work/There is no MD at down position/Single tray out switch doesn't work.	
Err 09	HOME POS	Lift down operation doesn't work/Home position switch doesn't work.	
Err 10	CLOSE or MD DOWN	Slider doesn't work in close mode/Close and T. U. down switches don't work.	
Err 11	COUNT	Mis-count disc.	

1-4 MECHANISM INITIALIZATION MODE

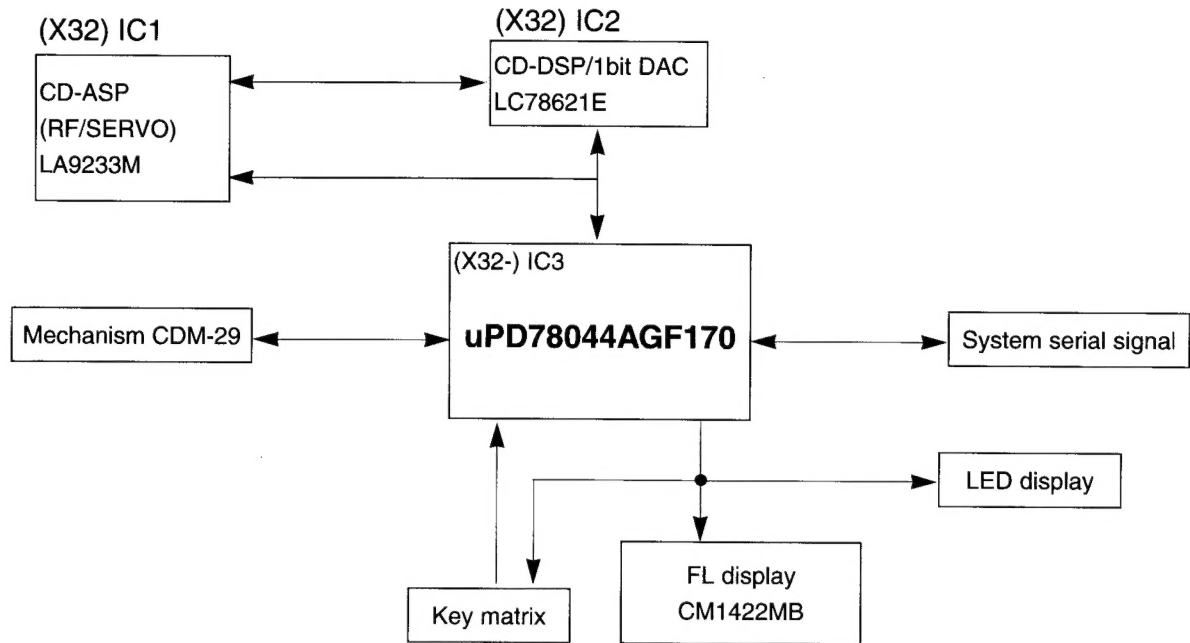
INPUT : Turn on with pressing STOP key. Return open/close slider to close position at full top stocker position. Next Return load slider to store position at full bottom position. Change to normal mode if mechanism has no troubles.

DP-MG7

CIRCUIT DESCRIPTION

2. Microprocessor : uPD78044AGF170 (X32-,IC3)

2-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

2-2 Pin description

PIN NO.	PIN NAME	I/O	DESCRIPTION
1-7	4G-10G	O	Display grid output
8	+5V	—	Power supply
9	CQCK	O	Clock output for DSP
10	NC	O	No use
11	SQOUT	I	Q data input for DSP
12	/SLTSW	I	Start limit sw input(L : LIMIT)
13	/T.CLOSE	I	Tray close sw input(L : CLOSE)
14	/H POS	I	Home position detection sw input(L :HOME)
15	/D.CNT	I	Disc count(height) detection sw (H : height ok)
16	/T. DOWN	O	Change Vref in TU-DOWN
17	/RESET	—	Reset port
18	/S. TRAY OUT	I	Tray-out detection sw (L : STORE)
19	/S.TRAY IN	I	Tray-in detection sw (L : LOAD)
20	GND	—	AD gnd
21	/S.TRAY ON	I	Tray-on detection sw(L : tray)
22	/T.U. DOWN	I	TU-DOWN detection sw
23	MOTOR3 (OPEN)	O	Load motor
24	MOTOR4 (DOWN)	O	Load motor
25	MOTOR1 (UP)	O	Tray motor
26	MOTOR2 (CLOSE)	O	Tray motor
27	S.BUSY	I/O	Serial busy port
28	S.DATA	I/O	Serial data port
29	AVdd	—	AD power supply(+5V)
30	AVref	—	AD standard voltage(+5V)
31	GND		GND
32	NC	O	No use
33	VSS	—	
34,35	X1,2	—	Clock input
36-40	NC	—	GND
41	DRF	I	ASP focus ok port
42	COIN	O	SAP micon data out
43	RWC	O	DSP micon busy out
44	SL+	O	ASP feed to inwards
45	SL-	O	DSP feed to outwards
46	WRQ	I	DSP Q-data synchro port
47	TES	I	Tracking error
48	Vss	—	GND
49	FSEQ	—	DSP EFM synchro port
50	FON	O	F-out offset
51	TGL	I	Change tracking gain
52	Vdd	—	+5V
53	/D.DET	I	Disc detection(L : disc)
54	/T.OPEN	I	Tray open sw
55	/C.BOS	I	Disc mis-load sw (L : BOS UP)
56-58	NC	O	No use
59,60	KR1,0	I	Key return input 1 and 0
61-66	SEG16-11	O	Display segments
67-70	SEG 10-7	O	Display segments/key scan
71	Vload	—	Display Power supply (-30V)
72-77	SEG6-1	O	Display segments/key scan
78-80	G2,1,3	O	Display grid

ADJUSTMENT

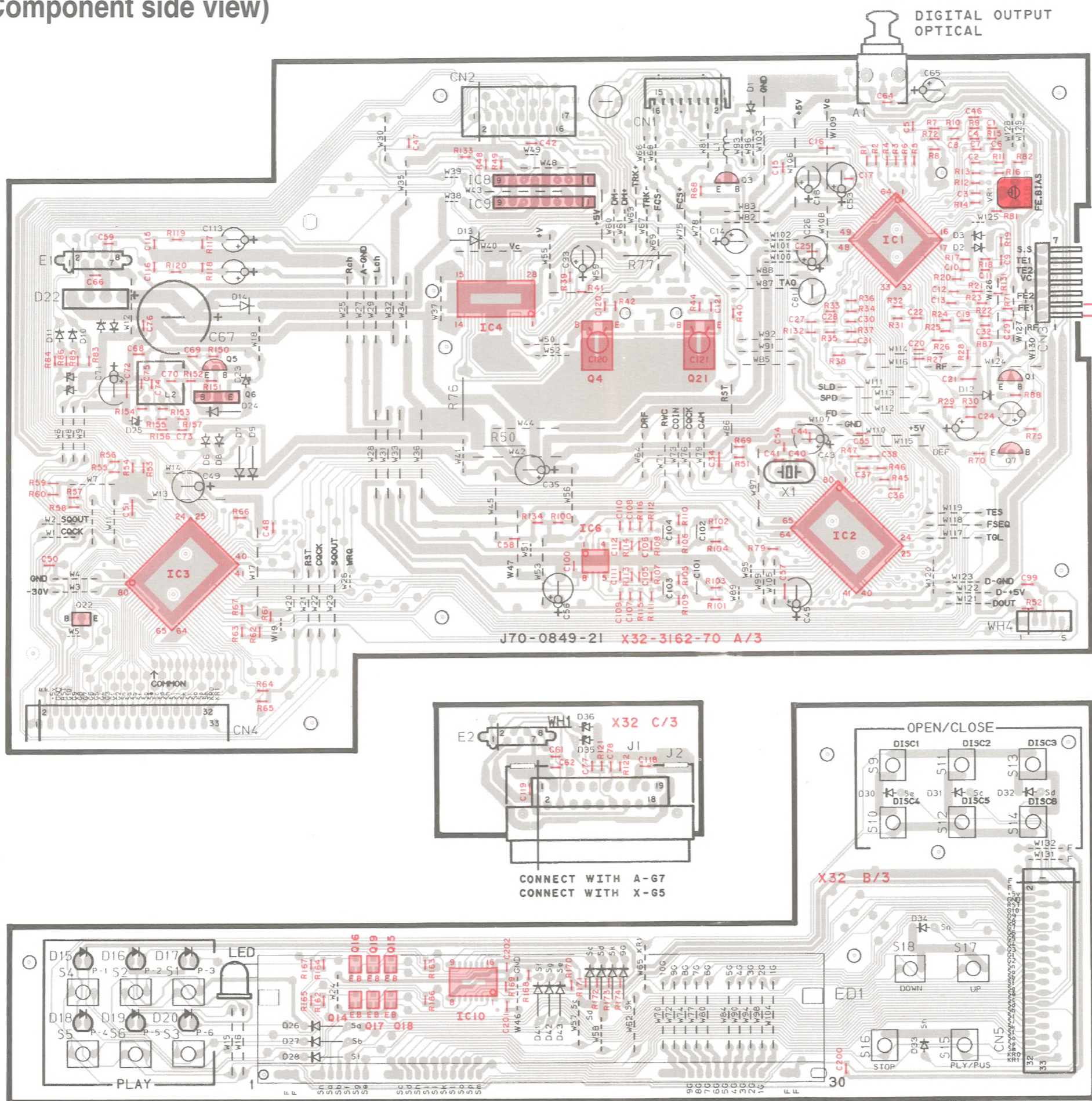
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1 : RF (CN3 pin 1) CH2 : FE(CN3 pin 2)	Set the unit to test mode. Press the PLAY key, then confirm that the display is "05".	FE BALANCE VR1	Optimum eye pattern	

Note :

Type 4 disc : SONY YEDS-18 Test Disc or equivalent.

Step 1 is in Test Mode. (Test Mode : Turn power on with pressing "Disc 1" key.)

PC BOARD (Component side view)

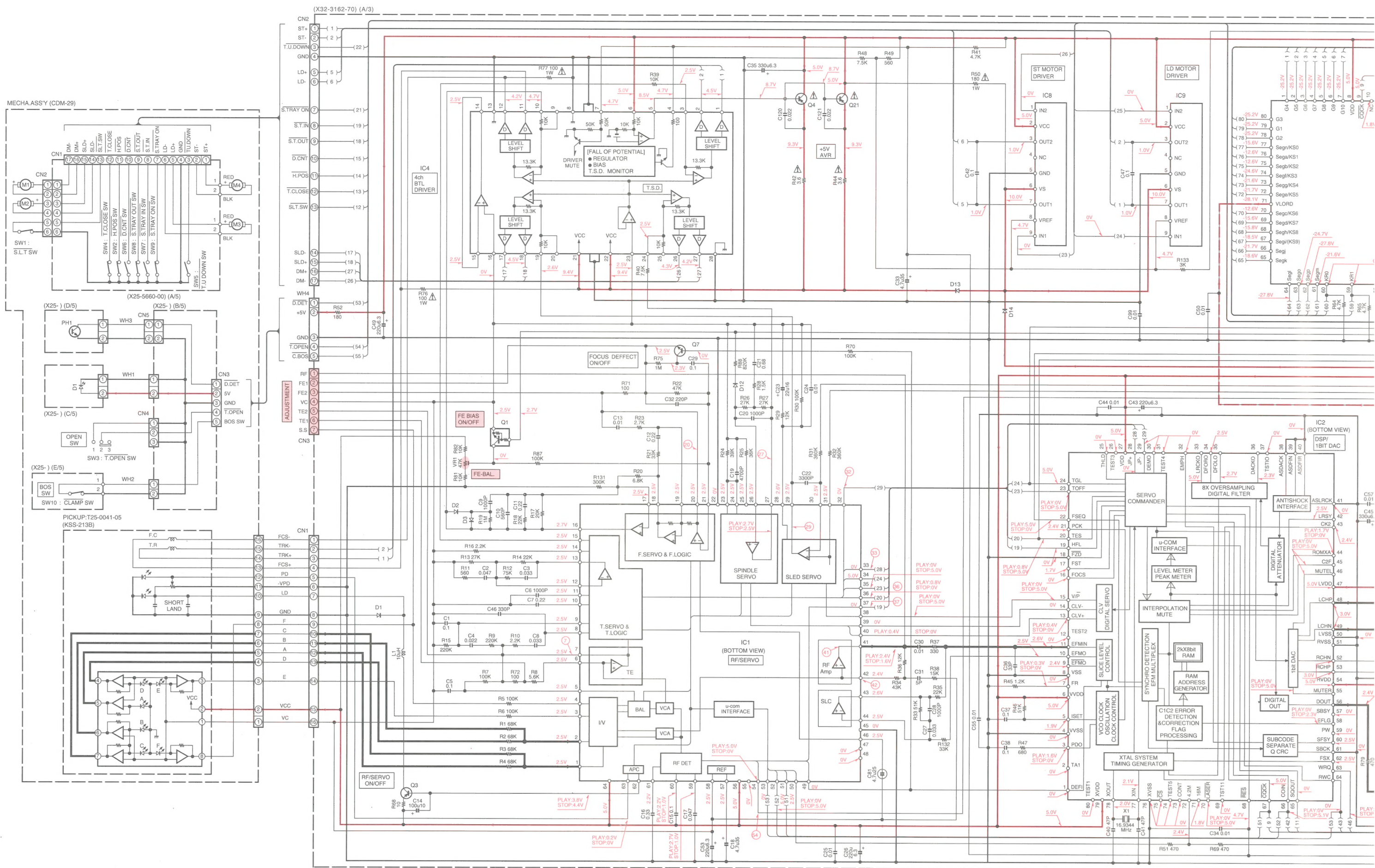


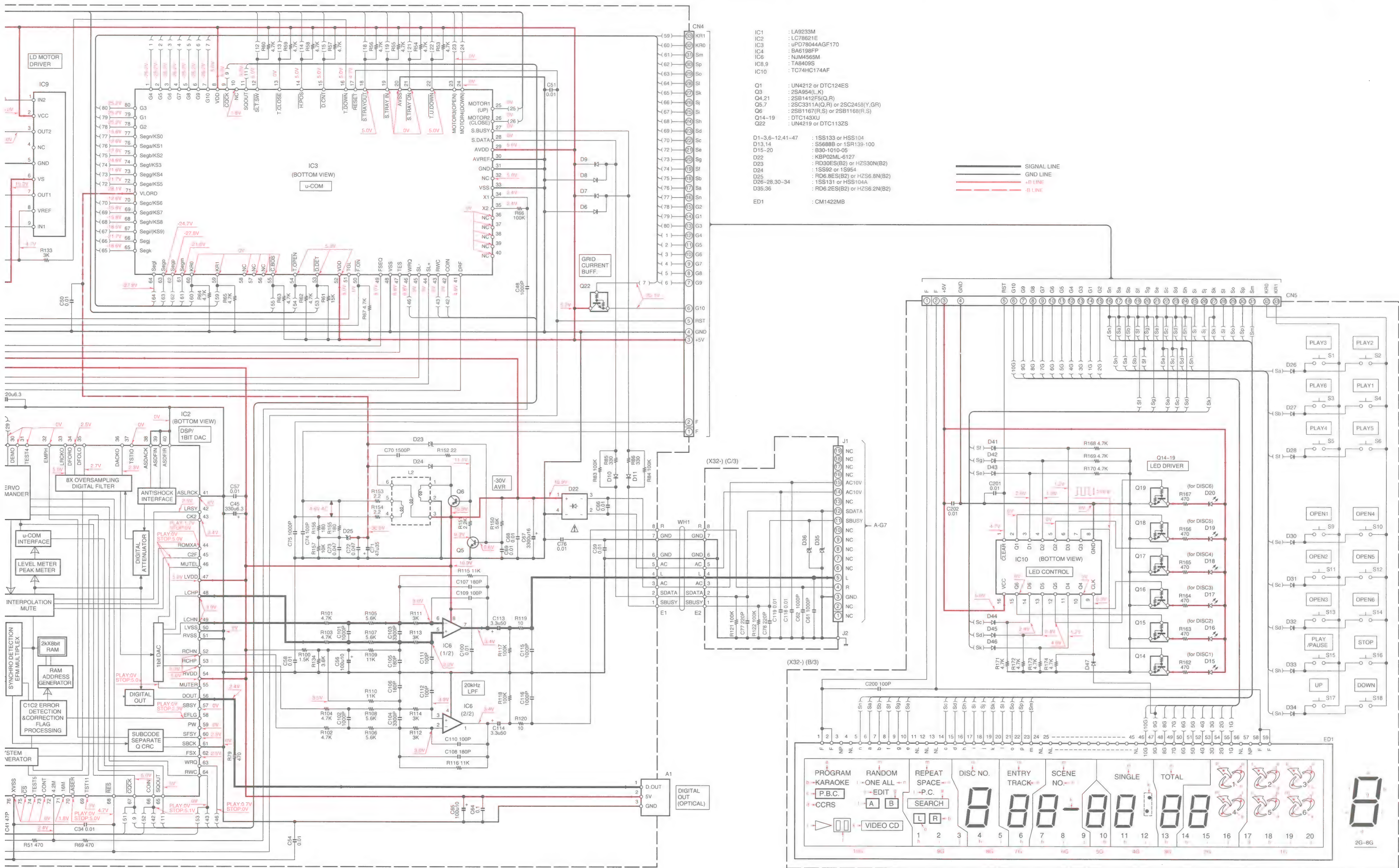
Focus error balance:
Optimum RF signal

CH2

CH1

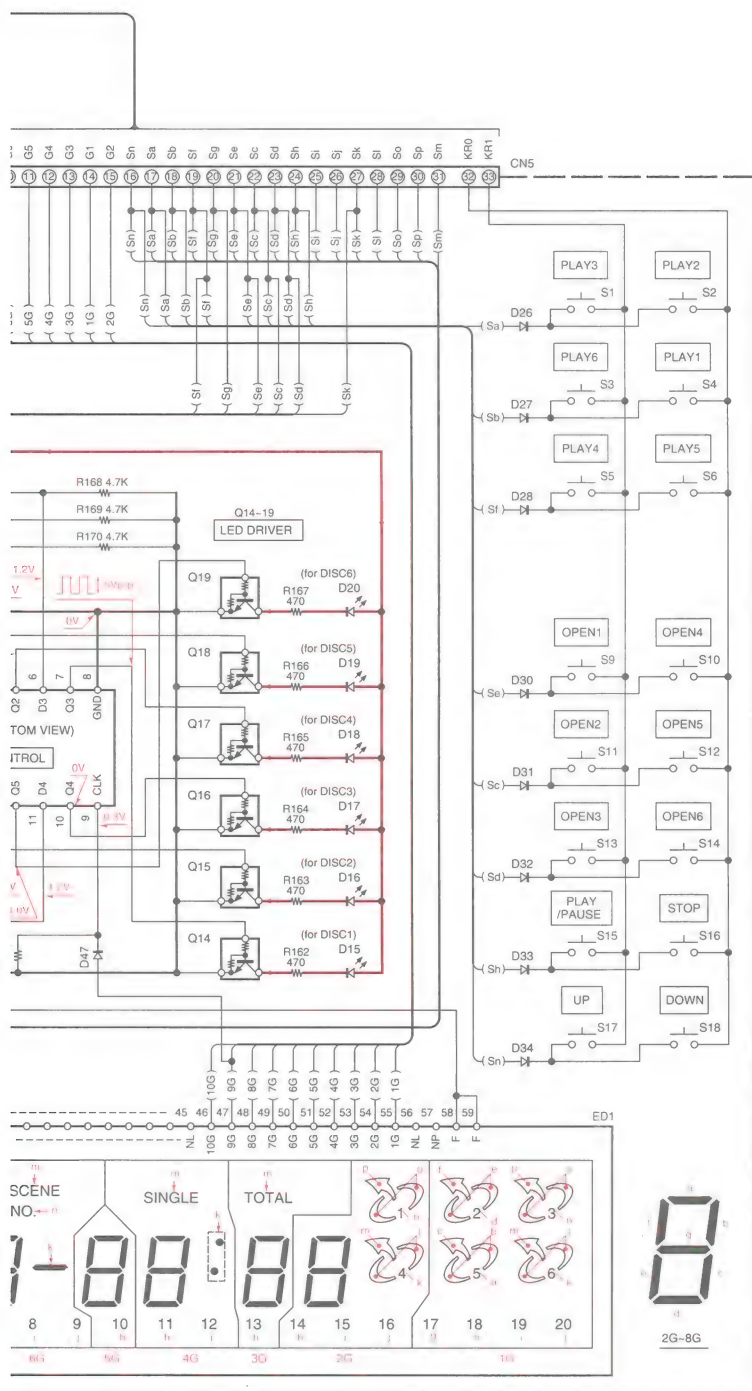
Oscilloscope





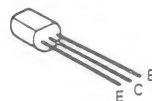
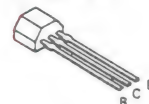
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP.

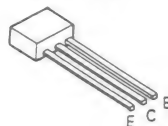


DP-MG7(M)

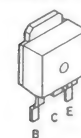
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DTC124ES
2SC2458

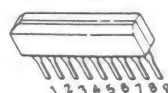
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UN4212
UN4219
2SC3311A

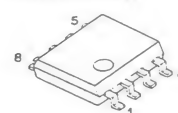
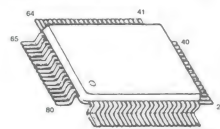
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2SB1167
2SB1168

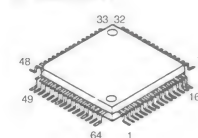
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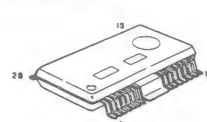
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UPD78044AGF170

LA9233M



BA6198FP

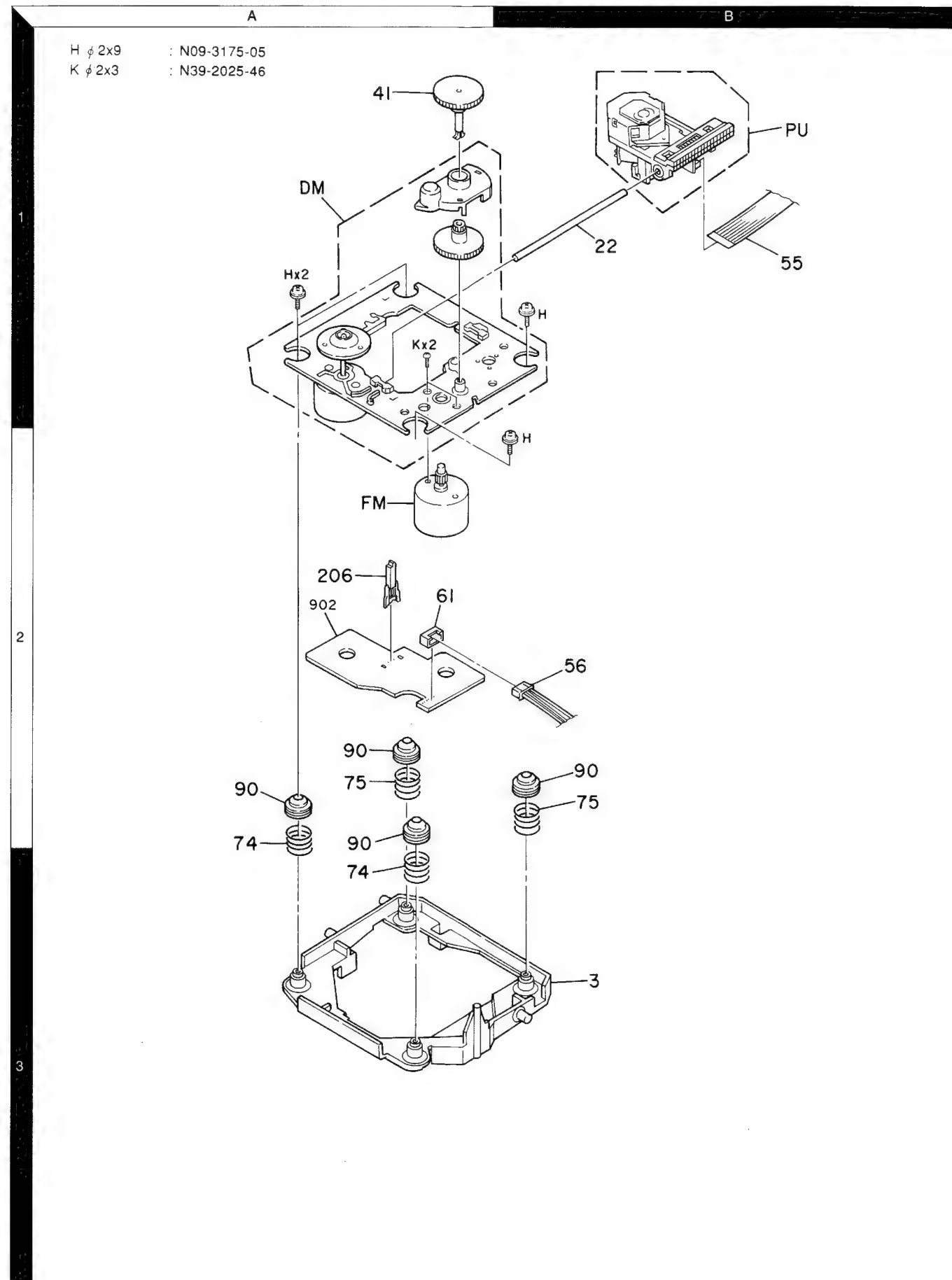


DP-MG7

KENWOOD

Y22-4472-70

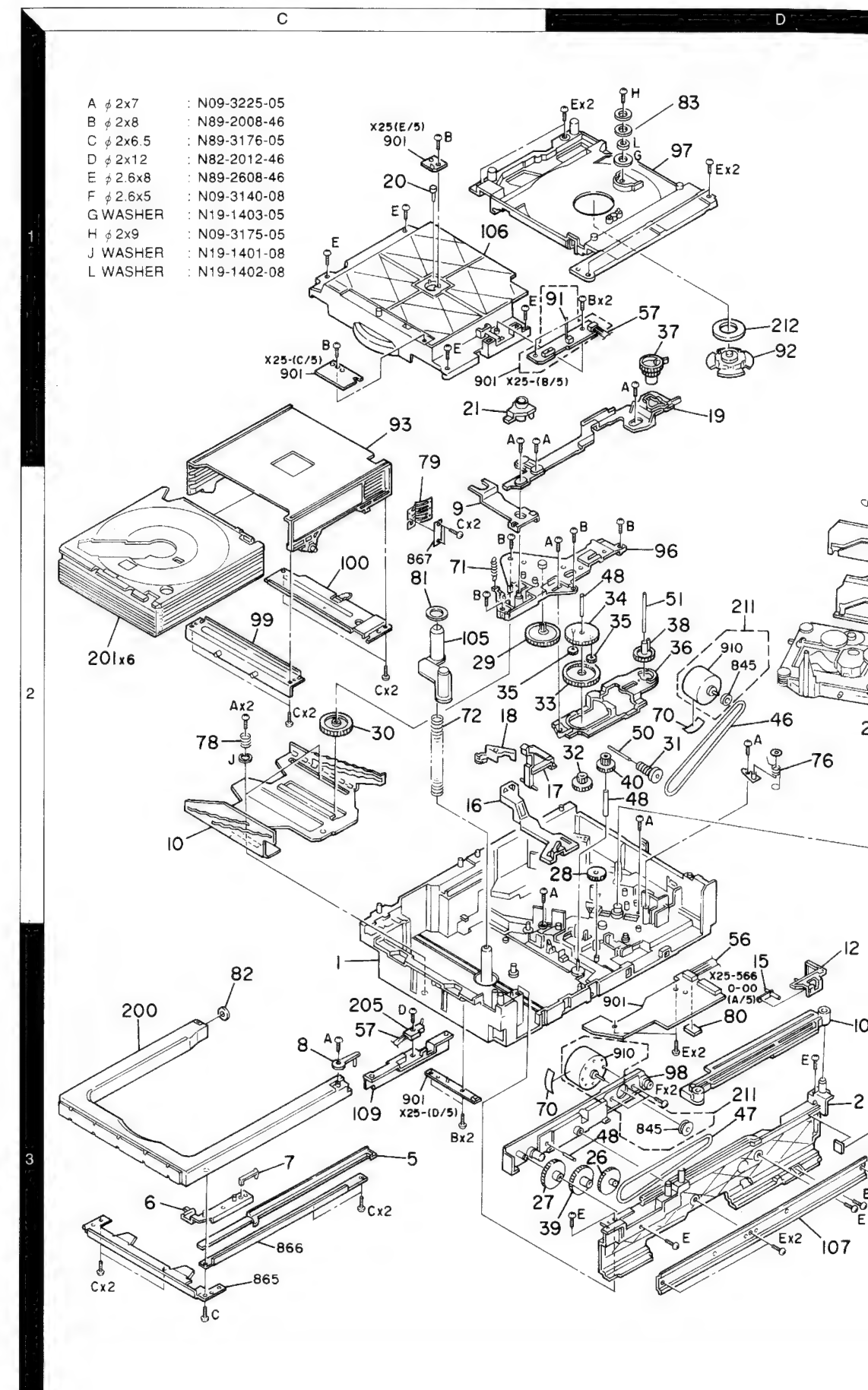
EXPLODED VIEW (CD MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

DP-MG7

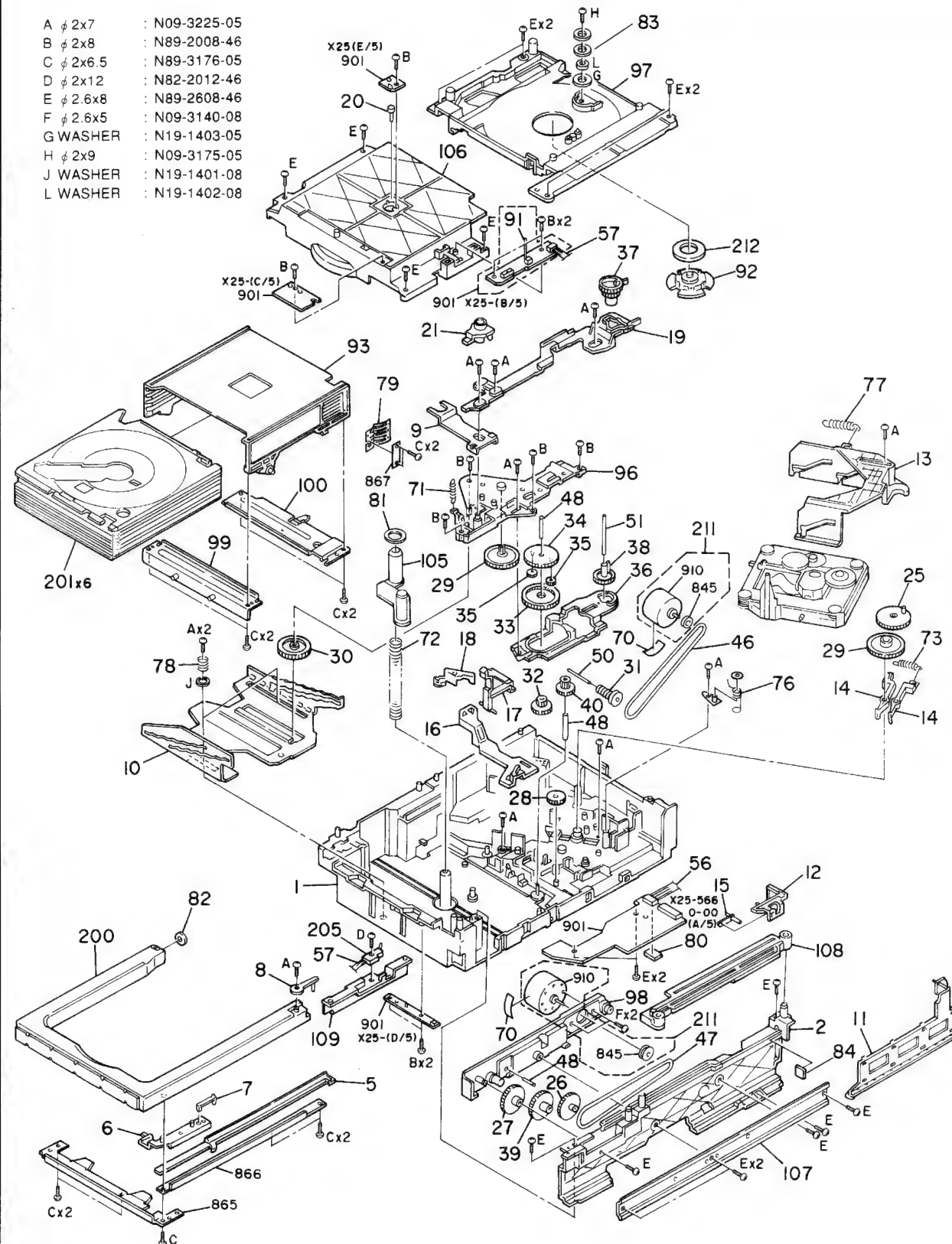
EXPLODED VIEW (CD MECHANISM)



Parts with the exploded numbers larger than 700 are

EXPLODED VIEW (CD MECHANISM)

- A $\phi 2 \times 7$: N09-3225-05
 B $\phi 2 \times 8$: N89-2008-46
 C $\phi 2 \times 6.5$: N89-3176-05
 D $\phi 2 \times 12$: N82-2012-46
 E $\phi 2.6 \times 8$: N89-2608-46
 F $\phi 2.6 \times 5$: N09-3140-08
 G WASHER : N19-1403-05
 H $\phi 2 \times 9$: N09-3175-05
 J WASHER : N19-1401-08
 L WASHER : N19-1402-08



PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
DP-MG7						
601	1E	*	A01-3304-01	METALLIC CABINET	ET	
603	2E	*	A29-0813-02	PANEL (DRESSING)		
604	2F	*	A60-0888-01	PANEL (FRONT)		
610	2F		B07-2268-24	ESCUTCHEON (FORE FEET)		
611	2E		B10-2097-03	FRONT GLASS (INDICATOR TUBE)		
612	2E	*	B10-2210-02	FRONT GLASS (DRESSING)		
613	2E		B43-0301-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD		
-		*	B58-1507-00	CAUTION CARD		
620	1F	*	E35-1348-05	FLAT CABLE (17P/MECHANISM)		
621	1F	*	E35-1410-05	FLAT CABLE (33P)		
622	1F	*	G11-2251-04	CUSHION		
625	1F		G10-0173-04	NON-WOVEN FABRIC		
626	2F		G11-2243-04	CUSHION (FORE FEET)		
-		*	H10-7181-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7182-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H20-0576-04	PROTECTION COVER		
-		*	H25-0681-04	PROTECTION BAG (MIRROR MAT) EYXT		
-		*	H50-1891-04	ITEM CARTON CASE		
-		*	H50-1892-04	ITEM CARTON CASE (SLEEVE)		
-		*	H50-1893-04	ITEM CARTON CASE (SLEEVE)		
630	2G		J02-0366-15	FOOT (HIND FEET)		
635	2F		K29-6224-02	KNOB (DISC SELECTOR)		
636	2F		K29-6225-03	KNOB (6KEY)		
637	2F		K29-6245-12	KNOB (PREV/NEXT/RETURN/SELECT)		
D1			SIR-33ST3	INFRARED LED		
CN1	3D		E40-4197-05	FLAT CABLE CONNECTOR (17P)		
CN2	3D		E40-3264-05	PIN ASSY (6P)		
CN3	1D		E40-3263-05	PIN ASSY (5P)		
CN4	1D		E40-4972-05	PIN ASSY (3P)		
CN5	3D		E40-3260-05	PIN ASSY (2P)		
-			J11-0808-05	WIRE CLAMPER		
SW2			S40-1140-05	PUSH SWITCH		
SW4-8			S68-0025-05	PUSH SWITCH		
SW9,10			S40-1140-05	PUSH SWITCH		
PH1			RPT-38PT3F	PHOTO TRANSISTOR		
CD PLAYER UNIT (X32-3162-70)						
D15-20			B30-1010-05	LED (SLP-281F-50U)		
C1			CK73FB1E104K	CHIP C		
C2			CK73FB1H473K	CHIP C		
C3			CK73FB1H333K	CHIP C		
C4			CK73FB1H223K	CHIP C		
C5			CK73FB1E104K	CHIP C		
C6			CK73FB1H102K	CHIP C		
C7			CK73FB1C224K	CHIP C		
C8			CK73FB1H333K	CHIP C		
-						

L : Scandinavia
Y : PX(Far East, Hawaii)
Y : AAFES(Europe)

K : USA
T : Europe
X : Australia

P : Canada
E : Europe
M : Other Areas

R : Mexico
G : Germany
C : CHINA

Δ indicates safety critical components.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C9			CK73FB1H102K	CHIP C		
C10			CK73FSL1H561J	CHIP C		
C11,12			CK73FB1C224K	CHIP C		
C13			CK73FB1H103K	CHIP C		
C14			CE04LW1A101M	ELECTRO		
C15			CK73FB1E104K	CHIP C		
C16			CK73EB1C334K	CHIP C		
C17			CK73FB1H473K	CHIP C		
C18			CE04LW1V4R7M	ELECTRO		
C19			CK73FB1H472K	CHIP C		
C20			CK73FB1H102K	CHIP C		
C21			CK73EB1C684K	CHIP C		
C22			CK73FB1H332K	CHIP C		
C23			CE04LW1C220M	ELECTRO		
C24,25			CK73FB1H103K	CHIP C		
C26			CE04LW0J221M	ELECTRO		
C27			CK73FB1H333K	CHIP C		
C28			CK73FB1H102K	CHIP C		
C29			CK73FB1E104K	CHIP C		
C30			CK73FB1H103K	CHIP C		
C31			CC73FCH1H050C	CHIP C		
C32			CC73FCH1H221J	CHIP C		
C33			CE04LW1V4R7M	ELECTRO		
C34			CK73EB1H103K	CHIP C		
C35			CE04LW0J331M	ELECTRO		
C36			CK73FCH1H330J	CHIP C		
C37,38			CK73FB1E104K	CHIP C		
C40,41			CK73FCH1H470J	CHIP C		
C42			CK73FB1E104K	CHIP C		
C43			CE04LW0J221M	ELECTRO		
C44			CK73FB1H103K	CHIP C		
C45			CE04LW0J331M	ELECTRO		
C46			CC73FCH1H331J	CHIP C		
C47			CK73FB1E104K	CHIP C		
C48			CK73FB1H102K	CHIP C		
C49			CE04LW0J221M	ELECTRO		
C50			CK73FB1H103K	CHIP C		
C51			CK73EB1H103K	CHIP C		
C53			CE04LW0J221M	ELECTRO		
C54,55			CK73FB1H103K	CHIP C		
C56			CE04LW1A101M	ELECTRO		
C57			CK73EB1H103K	CHIP C		
C58,59			CK73FB1H103K	CHIP C		
C61,62			CK73FB1H102K	CHIP C		
C64			CK73FB1E104K	CHIP C		
C65			CE04LW1A101M	ELECTRO		
C66			CK73FB1H103K	CHIP C		
C67			CE04LW1C332M	ELECTRO		
C68,69			CK73FB1H103K	CHIP C		
C70			CK73FB1H152K	CHIP C		
C71			CE04LW1V470M	ELECTRO		
C72			CK73EB1H473K	CHIP C		
C73			CK73FB1H473K	CHIP C		
C74,75			CK73FB1H102K	CHIP C		
C76			CK73FB1H103K	CHIP C		
-						
-						
-						
-						
-						

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4

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R41			RK73FB2A472J	CHIP R	1/10W	
R42			RK73FB2A3R6J	CHIP R	4.7K	
R43			RK73FB2A3R6J	CHIP R	3.6	
R44			RK73FB2A122J	CHIP R	3.6	
R45			RK73FB2A122J	CHIP R	1.2K	
R46			RK73FB2A513J	CHIP R	51K	
R47			RK73FB2A681J	CHIP R	680	
R48			RK73FB2A752J	CHIP R	7.5K	
R49			RK73FB2A561J	CHIP R	560	
R50			RS14KB3A181J	FL-PROOF RS	180	
R51			RK73FB2A471J	CHIP R	470	
R52			RK73FB2A181J	CHIP R	180	
R53 -60			RK73FB2A472J	CHIP R	4.7K	
R61			RK73FB2A153J	CHIP R	15K	
R62 -65			RK73FB2A472J	CHIP R	4.7K	
R66			RK73FB2A104J	CHIP R	100K	
R67			RK73FB2A472J	CHIP R	4.7K	
R68			RK73FB2A100J	CHIP R	10	
R69			RK73FB2A471J	CHIP R	470	
R70			RK73FB2A104J	CHIP R	100K	
R71 .72			RK73FB2A101J	CHIP R	100	
R75			RK73FB2A105J	CHIP R	1.0M	
R76 .77			RS14KB3A101J	FL-PROOF RS	100	
R79			RK73FB2A471J	CHIP R	470	
R81 .82			RK73FB2A103J	CHIP R	10K	
R83 .84			RK73FB2A104J	CHIP R	100K	
R85 .86			RK73FB2A331J	CHIP R	330	
R87			RK73FB2A104J	CHIP R	100K	
R88			RK73FB2A624J	CHIP R	820K	
R100			RK73FB2A152J	CHIP R	1.5K	
R101-104			RK73FB2A472J	CHIP R	4.7K	
R105-108			RK73FB2A562J	CHIP R	5.6K	
R109,110			RK73FB2A113J	CHIP R	11K	
R111-114			RK73FB2A302J	CHIP R	3.0K	
R115,116			RK73FB2A113J	CHIP R	11K	
R117,118			RK73FB2A104J	CHIP R	100K	
R119,120			RK73FB2A100J	CHIP R	10	
R121,122			RK73FB2A104J	CHIP R	100K	
R131			RK73FB2A304J	CHIP R	300K	
R132			RK73FB2A333J	CHIP R	33K	
R133			RK73FB2A302J	CHIP R	3.0K	
R134			RK73FB2A362J	CHIP R	3.6K	
R150			RK73FB2A562J	CHIP R	5.6K	
R151			RK73FB2A222J	CHIP R	2.2K	
R152			RK73FB2A220J	CHIP R	22K	
R153,154			RK73FB2A2R2J	CHIP R	2.2	
R155,156			RK73FB2A181J	CHIP R	180	
R157			RK73FB2A103J	CHIP R	10K	
R162-167			RK73FB2A471J	CHIP R	470	
R168-174			RK73FB2A472J	CHIP R	4.7K	
VR1			R12-3688-05	TRIMMING POT.	(47K)	
S1 -6	1E		S70-0031-05	TACT SWITCH (PLAY1-6)		
S9 -18	1E,1F		S70-0031-05	TACT SWITCH (OPEN/PAUSE/STOP)		
D1 -3			HSS104	DIODE		
D1 -3			1SS133	DIODE		

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C77 .78			CE04-HW1E4R7M	CHIP C	220PF	
C81			CE04-HW1E4R7M	NP-ELEC	25WV	
C99, 100			CK73FB1H103K	CHIP C	4.7UF	
C101,102			CQ93FMG1H102J	MYLAR	1000UF	
C103,104			CQ93FMG1H332J	MYLAR	3300PF	
C105-108			CK73FCBH1H181J	CHIP C	180PF	
C109-112			CK73FCBH1H101J	CHIP C	100PF	
C113,114			CE04LW1H3R3M	ELECTRO	3.3UF	
C115,116			CK73FB1H102K	CHIP C	1000PF	
C118,119			CK73FB1H103K	CHIP C	0.010UF	
C120,121			CK73FB1H223K	CHIP C	0.022UF	
C200			CK73FCBH1H101J	CHIP C	100PF	
C201,202			CK73FB1H103K	CHIP C	0.010UF	
CN1			E40-4997-05	FLAT CABLE CONNECTOR		
CN2			E40-4942-05	FLAT CABLE CONNECTOR (17P)		
CN3			E40-4979-05	PIN ASSY (7P)		
CN4 .5			E40-4858-05	FLAT CABLE CONNECTOR (33P)		
J1	1G		E58-0006-05	RECTANGULAR RECEPTACLE (19P)		
L1			L40-1001-17	SMALL FIXED INDUCTOR (100H,K)		
L2			L19-0076-05	TRANSFORMER FOR CONVERTER		
X1			L77-1164-05	CRYSTAL RESONATOR (16.9344MHZ)		
R1 -4			RK73FB2A688J	CHIP R	68K	
R5 -7			RK73FB2A104J	CHIP R	100K	
R8			RK73FB2A562J	CHIP R	5.6K	
R9			RK73FB2A224J	CHIP R	220K	
R10			RK73FB2A222J	CHIP R	2.2K	
R11			RK73FB2A561J	CHIP R	560	
R12			RK73FB2A753J	CHIP R	75K	
R13			RK73FB2A273J	CHIP R	27K	
R14			RK73FB2A223J	CHIP R	22K	
R15			RK73FB2A224J	CHIP R	22K	
R16			RK73FB2A222J	CHIP R	2.2K	
R17			RK73FB2A203J	CHIP R	20K	
R18			RK73FB2A223J	CHIP R	22K	
R19			RK73FB2A105J	CHIP R	1.0M	
R20			RK73FB2A688J	CHIP R	6.8K	
R21			RK73FB2A333J	CHIP R	33K	
R22			RK73FB2A473J	CHIP R	47K	
R23			RK73FB2A272J	CHIP R	2.7K	
R24			RK73FB2A393J	CHIP R	39K	
R25			RK73FB2A363J	CHIP R	36K	
R26 .27			RK73FB2A273J	CHIP R	27K	
R28			RK73FB2A152J	CHIP R	1.5K	
R29			RK73FB2A123J	CHIP R	12K	
R30			RK73FB2A104J	CHIP R	100K	
R31 .32			RK73FB2A364J	CHIP R	360K	
R33			RK73FB2A513J	CHIP R	51K	
R34			RK73FB2A433J	CHIP R	43K	
R35			RK73FB2A223J	CHIP R	22K	
R36			RK73FB2A123J	CHIP R	12K	
R37			RK73FB2A331J	CHIP R	330	
R38			RK73FB2A153J	CHIP R	15K	
R39			RK73FB2A103J	CHIP R	10K	
R40			RK73FB2A752J	CHIP R	7.5K	

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D6 -12			HSS104	DIODE		
D6 -12			1SS133	DIODE		
D13 -14			S5688B	DIODE		
D13 -14			1SR139-100	DIODE		
D22			KBP02ML-6127	DIODE		
D23			HZS30N(B2)	ZENER DIODE		
D23			RD30ES(B2)	ZENER DIODE		
D24			1SS92	DIODE		
D24			1SR94	DIODE		
D25			HZS6.8N(B2)	ZENER DIODE		
D25			RD6.8ES(B2)	ZENER DIODE		
D26 -28			HSS104A	DIODE		
D26 -28			1SS131	DIODE		
D30 -34			HSS104A	DIODE		
D30 -34			1SS131	DIODE		
D35 -36			HZS6.2N(B2)	ZENER DIODE		
D35 -36			RD6.2ES(B2)	ZENER DIODE		
D41 -47			HSS104	DIODE		
D41 -47			1SS133	DIODE		
ED1	1E		CM1422MB	INDICATOR TUBE		
IC1			LA9233M	ANALOGUE IC		
IC2		*	LC78621E	MOS-IC		
IC3		*	UPD78044AGF-170	MI-COM IC		
IC4			BA6198FP	ANALOGUE IC		
IC6			NJM4565M	IC(OP AMP X2) (OP AMP X2)		
IC8 -9			TA8409S	MOS-IC		
IC10			TC74HC174AF	IC		
Q1			DTC124ES	DIGITAL TRANSISTOR		
Q1			UN4212	TRANSISTOR		
Q3			2SA954(L,K)	TRANSISTOR		
Q4			2SB1412F5(Q,R)	TRANSISTOR		
Q5			2SC2458(Y,G,R)	TRANSISTOR		
Q5			2SC3311A(Q,R)	TRANSISTOR		
Q6			2SB1167(R,S)	TRANSISTOR		
Q6			2SB1168(R,S)	TRANSISTOR		
Q7			2SC2458(Y,G,R)	TRANSISTOR		
Q7			2SC3311A(Q,R)	TRANSISTOR		
Q14 -19			DTC143XU	DIGITAL TRANSISTOR		
Q21			2SB1412F5(Q,R)	TRANSISTOR		
Q22			DTC113ZS	DIGITAL TRANSISTOR		
Q22			UN4219	TRANSISTOR		
A1	1F		W02-1114-05	OSCILLATING MODULE (TOTX178)		
MECHANISM ASSY (D40-1475-05)						
1	3C		A10-3202-08	CHASSIS	(MAIN)	
2	3B		A11-1063-08	SUB CHASSIS	(RIGHT)	
3	3D		A13-3024-08	FRAME		
5	3C		D10-3555-08	SLIDER	(MAIN)	
6	3C		D10-3556-08	SLIDER	(CD-TRAY)	
7	3C		D10-3557-08	LEVER	(CD-TRAY)	
8	3C		D10-3558-08	LEVER	(TRAY-A)	
9	2C		D10-3559-08	LEVER	(GUIDE-A)	
10	2C		D10-3560-08	SLIDER	(LIFT)	
11	3D		D10-3561-08	SLIDER	(LOADING)	

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12	3D		D10-3562-08	LEVER	(LOADING)	
13	2D		D10-3565-08	SLIDER	(UP/DOWN)	
14	2D		D10-3566-08	ARM	(UP/DOWN)	
15	3D		D10-3578-08	LEVER	(LIMIT)	
16	2C		D10-3579-08	LEVER	(SWITCH LOAD)	
17	2D		D10-3580-08	LEVER	(TRAY-B)	
18	2C		D10-3581-08	LEVER	(STOCK SWITCH)	
19	1D		D10-3582-08	LEVER	(GUIDE-B)	
20	1C		D10-3600-08	ARM	(SWITCH)	
21	1C		D10-3605-08	LEVER	(GUIDE-C)	
22	1B		D10-3606-08	ROD		
25	2D		D12-0152-08	CAM	(GEAR)	
26	3D		D13-1690-08	GEAR	(PULLEY)	
27	3D		D13-1691-08	GEAR	(FINAL-A)	
28	2D		D13-1692-08	GEAR	(IDLER-A)	
29	2C,2D		D13-1693-08	GEAR	(IDLER-B)	
30	2C		D13-1694-08	GEAR	(FINAL-B)	
31	2D		D13-1696-08	WORM	(PULLEY)	
32	2D		D13-1697-08	GEAR	(SUN)	
33	2D		D13-1698-08	GEAR	(INTERNAL)	
34	2D		D13-1699-08	GEAR	(CARRIER)	
35	2C,2D		D13-1700-08	GEAR	(PLANET)	
36	2D		D13-1701-08	RACK	(BRAKE)	
37	1D		D13-1702-08	GEAR	(TOP)	
38	2D		D13-1737-08	GEAR ASSY	(BOTTOM)	
39	3D		D13-1706-08	GEAR	(IDLER-C)	
40	2D		D13-1719-08	GEAR	(HELICAL)	
41	1A		D13-1720-08	GEAR	(A)	
46	2D		D16-0383-08	BELT	(B)	
47	3D		D16-0388-08	BELT	(PULLEY)	
48	2D,3D		D21-1794-08	SHAFT	(WORM)	
50	2D		D21-1796-08	SHAFT	(CAM GEAR)	
51	2D		D21-1797-08	SHAFT		
55	1B		E35-1147-08	FLAT CABLE	(16P)	
56	2B,3D		E35-1148-08	WIRING HARNESS	(6P)	
57	1D,3		E35-1162-05	WIRING HARNESS	(2P)	
61	2A		E40-3264-05	PIN ASSY	(6P)	
70	2D,3D		G01-0192-04	SOFT TAPE		
71	2C		G01-3780-08	EXTENSION SPRING	(A)	
72	2C		G01-3781-08	COMPRESSION SPRING	(A)	
73	2D		G01-3782-08	EXTENSION SPRING	(B)	
74	3A		G01-3799-08	COMPRESSION SPRING	(B)	
75	2A,2B		G01-3800-08	COMPRESSION SPRING	(C)	
76	2D		G01-3825-08	TORSION SPRING		
77	1D		G01-3826-08	EXTENSION SPRING	(C)	
78	2C		G01-3847-08	COMPRESSION SPRING	(D)	
79	1C		G02-1079-08	FLAT SPRING	(C)	
80	3D		G13-0521-08	CUSHION		
81	2C		G13-0522-08	CUSHION	(B)	
82	3C		G16-0821-04	SHEET	(TRAY-B)	
83	1D		G13-0523-08	CUSHION	(C)	
84	3D		G13-0525-08	CUSHION	(D)	
90	2A,2B		J02-1133-08	INSULATOR		
91	1D		J11-0098-05	STYLE PIN		

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92	1D		J11-0804-08	CLAMPER		
93	1C		J19-3768-08	HOLDER		
96	2D		J19-3773-08	BRACKET		(TOP)
97	1D		J19-3774-08	BRACKET		(GEAR-A)
98	3D		J19-3795-08	BRACKET		(CLAMP)
						(MOTOR)
99	2C		J19-3797-08	HOLDER ASSY		(BOTTOM-F)
100	2C		J19-3798-08	HOLDER ASSY		(BOTTOM-R)
105	2C		J90-0826-08	GUIDE		(DISC)
106	1C		J90-0827-08	GUIDE		(TOP)
107	3D		J90-0828-08	RAIL		(LOADING)
						(R)
108	3D		J90-0830-08	RAIL		(TRAY)
109	3C		J90-0833-08	GUIDE		(MAIN)
200	3C		J99-0570-08	TRAY		(STOCK)
201	2C		J99-0572-08	TRAY		
F			N09-3140-08	SCREW		(E/M2.6X5)
J			N19-1401-08	WASHER		(5.3X10X1)
L			N19-1402-08	WASHER		(2.5X5X1T)
205	3C		S64-0015-08	LEVER SWITCH		(SW3)
206	2A		S74-0038-08	LEAF SWITCH		
211	2D,3D		T42-0821-05	MOTOR ASSY		
212	1D		T99-0503-15	MAGNET		
DM	1A		A11-1082-08	SUB CHASSIS ASSY		
FM	2A		T42-0817-08	MOTOR ASSY		
PU	1B		T25-0041-05	PICK-UP ASSY		(KSS-213B)

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DP-MG7

SPECIFICATIONS

CD player section

Laser	Semiconductor laser
Playing rotation	200 rpm ~ 500 rpm (CLV)
Frequency response	8 Hz ~ 20 kHz, ± 1.0 dB
Signal to noise ratio	More than 95 dB
Total harmonic distortion	Less than 0.007 % (at 1 kHz)
Channel separation	More than 90 dB (at 1 kHz)
Wow & Flutter	Unmeasurable Limit
Digital output	
Optical	-15 dBm ~ -21 dBm (wave length 660 nm)

[General]

Dimensions.....W : 270 mm (10-5/8")
H : 104 mm (4-1/8")
D : 320 mm (12-5/8")
Weight (net)3.4 kg (7.5 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.